PROJECT DESCRIPTION

936 RIDGEBROOK ROAD

Sparks, Maryland 21152

TELEPHONE: (410) 316-7800

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TECHNOLOGIES

800000

800000

802501

810022 811001 108

360

50

SF

EΑ

LF

EΑ

INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)

THIRD PARTY CONCRETE TESTING (PER INTERSECTION)

ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG-THHN/THWN

NO. 6 AWG STRANDED BARE COPPER GROUND WIRE

FURNISH AND INSTALL ELECTRICAL HANDHOLE

I. GENERAL THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE TRAFFIC SIGNAL AT THE INTERSECTION OF MD 210 (INDIAN HEAD HIGHWAY) AT WILSON BRIDGE DRIVE IN PRINCE GEORGE'S COUNTY. MD 210 (INDIAN HEAD HIGHWAY) IS ASSUMED TO RUN IN A NORTH - SOUTH DIRECTION. II. INTERSECTION OPERATION THIS INTERSECTION OPERATES IN A NEMA FOUR-PHASE FULLY-TRAFFIC-ACTUATED MODE, THERE IS AN EXCLUSIVE-PERMISSIVE LEFT-TURN PHASE FOR NORTHBOUND MD 210. THE NORTHBOUND AND SOUTHBOUND MOVEMENTS OPERATE CONCURRENTLY. II.PEDESTRIAN OPERATION NAVIGATOR AUDIBLE PEDESTRIAN PUSHBUTTONS TO CROSS THE SOUTH LEG OF THE INTERSECTION IS TO BE PROVIDED. WHEN THE PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED PERIOD OF TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE: SOUTH: "WAIT TO CROSS INDIAN HEAD AT WILSON BRIDGE. WAIT." WHEN THE WALK PHASE BEGINS: THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE. 1. <u>CONTACT PERSONS</u> THE CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS: <u>DISTRICT 3</u> OFFICE OF TRAFFIC AND SAFETY MR. VENU NEMANI ASSISTANT DISTRICT ENGINEER - TRAFFIC (PG) MS. CORREN JOHNSON 301-513-7404 CHIEF, TRAFFIC OPERATIONS 410-787-7630 MR. VICTOR GRAFTON UTILITY ENGINEER MR. ROBERT SNYDER 301-513-7350 ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS 410-787-7630 MR. TOM FOUNTAIN ASSISTANT DISTRICT ENGINEER - MAINTENANCE MR. ED RODENHIZER 301-513-7304 MANAGER SIGNAL OPERATIONS 410-787-7650 MR. DUANE BERNARD MR. EUGENE BAILEY ASSISTANT DISTRICT ENGINEER - CONSTRUCTION MANAGER SIGN OPERATIONS 301-513-7385 410-787-7670 MR. MIKE STOCKER POTOMAC ELECTRIC POWER COMPANY SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE) MR. RICHARD CHILCOAT 410-787-7668 202<del>-</del>872<del>-</del>2000 MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE FOLLOWING STANDARD PLATES FOR TRAFFIC CONTROL: MD 104.03-11, MD 104.04-13 THROUGH MD 104.04-16. 2. EQUIPMENT LIST A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION ITEM NO. QUANTITY UNIT DESCRIPTION 900000 SHEET ALUMINUM GROUND MOUNTED SIGNS CONSISTING OF: W11-2, (30''X30'') - 2 EA, 14 SF W16-7pL, (24"X12") - 1 EA, 2 SF W16-7pR, (24"X12") - 1 EA, 2 SF R4-7; (24"X30") - 1 EA, 5 SF OM1-3, (18"X18") - 1 EA, 2 SF 900000 83 SF SHEET ALUMINUM MAST ARM / POLE MOUNTED SIGNS CONSISTING OF: R3-5L, (30"X36") - 2 EA, 15 SF D-3(1), (96"X16") - 3 EA, 32 SFM1-5(6), (30"X48"), 1 EA, 10 SF M1-5(6), (48"X72"), 1 EA, 24 SF R10-3(1), (9"X15"), 2EA, 2 SF 900000 CONTROLLER CABINET, SIZE "S" W/CTRL, VIDEO INT. 1-8 CAM 900000 EΑ 4 CHANNEL DETECTOR AMPLIFIER 900000 EΑ VIDEO DETECTION INTERFACE EQUIPMENT: 1-8 CAMERAS UPS EQUIPMENT FOR "S" CABINET 900000 EΑ B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR QUANTITY UNIT DESCRIPTION ITEM NO. 100000 MAINTENANCE OF TRAFFIC (PER INTERSECTION) 201032 10 CY CLASS 2 EXCAVATION 203030 CY TEST PIT EXCAVATION 390321 31 SY CLASS I RIPRAP FOR SLOPE AND CHANNEL PROTECTION 390524 SY GEOTEXTILE CLASS ST 504150 TON HOT MIX ASPHALT SUPERPAVE 9.5MM FOR SURFACE, PG76-22, LEVEL-3 3 INCH GRADED AGGREGATE BASE COURSE 520109 10 SY 585621 130 LF 12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES 585700 870 LF REMOVAL OF EXISTING PAVEMENT MARKING LINES, ANY WIDTH 600000 98 LF TYPE A COMBINATION CURB AND GUTTER ANY HEIGHT OR DEPTH 188 600000 LF TYPE A CURB ANY HEIGHT OR DEPTH 674 SF 655105 5 INCH CONCRETE SIDEWALK 655120 80 SF DETECTABLE WARNING SURFACE FOR CURB RAMPS LF 660782 25 TRAFFIC BARRIER W BEAM MEDIAN BARRIER EΑ TYPE D TRAFFIC BARRIER END TREATMENT 662325 REMOVAL AND DISPOSAL OF EXISTING TRAFFIC BARRIER W BEAM 800000 EΑ 8 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION 800000 EΑ 2-WIRE APS CENTRAL CONTROL UNIT 800000 EΑ ANY SIZE LIGHTING ARM ON SIGNAL POLE WITH LED ROADWAY LUMINAIRE 800000 EΑ AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS 800000 EΑ 16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD EΑ IP-BASED VIDEO DETECTION CAMERA & ANY LENGTH LEAD-IN CABLE 800000 5 FOOT OR 10 FOOT PEDESTAL POLE WITH BREAKAWAY COUPLINGS, FOUNDATION & GROUND ROD MAST ARM POLE & 60' MAST ARM ANY 'T' DIMENSION, FOUNDATION & GROUND ROD 800000 EΑ 800000 EΑ REMOVE & DISPOSÉ OF EXISTING SIGNAL EQUIPMENT (PER SIGNALIZED INTERSECTION LOCATION) ENGINEERS PLANNERS INSTALL CONTROLLER AND CABINET BASE MOUNT (ANY SIZE) INCLUDING F&I FOUNDATION & GROUND ROD 800000 EΑ 800000 90 1 - CONDUCTOR ELECTRICAL CABLE, NO. 2/O AWG, TYPE THHN LF Constitution of the Consti 800000 500 LF DISCONNECT, PULL-BACK & REROUTE CABLES SCIENTISTS 290 800000 LF UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED OR SLOTTED CONSTRUCTION MANAGERS 330 800000 LF UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED 800000 48 LF WOOD SIGN SUPPORTS UP TO 4 INCH X 6 INCH

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR ITEM NO. QUANTITY UNIT DESCRIPTION 833060 3 INCH DIAMETER POLYVINYL CHLORIDE CONDUIT, SÇHEDULÆ 80, RISER 860284 25 12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION 861105 ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG) 270 350 861107 ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG) 861108 930 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG) C. SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS

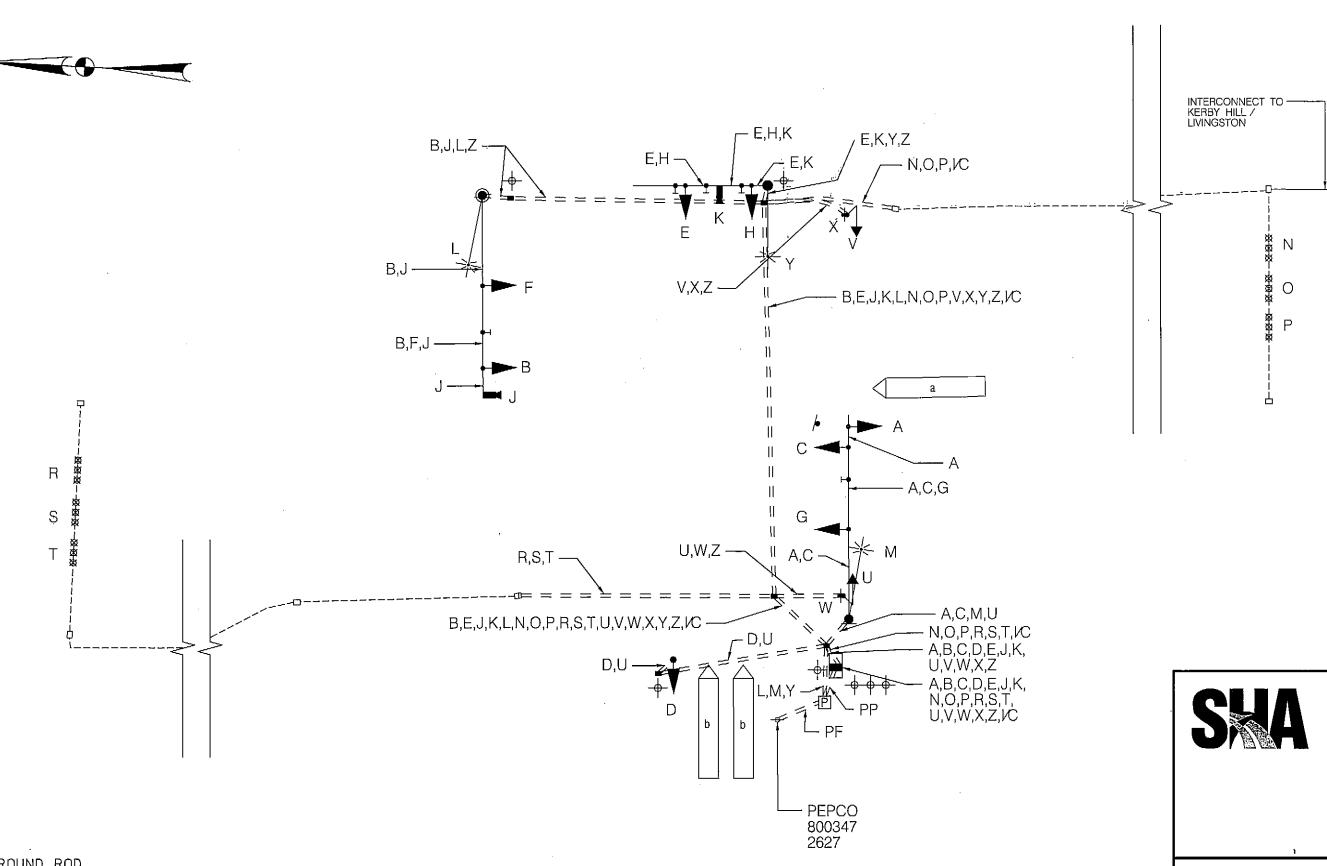
TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

<u>WIRING LEGEND</u>

—⊕ – GROUND ROD

A,B,C,D,E - 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) F;G,H,U,V — 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) W,X - 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) J.K - VIDEO DETECTION CONTROL CABLE L,M,Y - ELECTRICAL CABLE - 3 CONDUCTOR (NO. 12 AWG) (B,W,G) TYPE TC Z - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.) PF - 3-1- CONDUCTOR ELECTRICAL CABLES, NO. 2/O AWG, TYPE THHN PP - ELECTRICAL CABLE, 3-1- CONDUCTOR NO. 8 AWG-THHN/THWN I/C - EXISTING INTERCONNECT CABLE N,O,P,R,S,T - EXISTING NON-INVASIVE MICROLOOP PROBE LEAD-IN CABLE

WIRING DIAGRAM



STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY

> TRAFFIC ENGINEERING DESIGN DIVISION MD 210 (INDIAN HEAD HIGHWAY) AT WILSON BRIDGE DRIVE

> > OXON HILL, MARYLAND

**GENERAL INFORMATION SHEET** 

SCALE <u>N.T.S.</u>	ADVERTISED DATE	05/2013 (	CONTRACT NO. XY1515185
DESIGNED BY	AF/AMH	COUNTY	PRINCE GEORGE'S
DRAWN BY	AF	LOGMILE	16021012.02
CHECKED BY	JFL.	TIMS NO	L803
F.A.P. NO TOD NO			
TS NO.3112 <b>.</b> 9-GI	DRAWING SG-3		SHEET NO. 12 OF 12

PLOTTED: "02:23 PM on Thursday, May 16, 2013"

FILE: M:\2009\01090619.92\drawings\pSG=N004\_MD210.dgn

PHASE 1 AND 6 |dG/G |dG/G | PHASË 1 CHANGE G | G | G | G | R | R | R | DW | DW PHASE 2 AND 6 2 AND 6 CHANGE R | R | R | R | G | G | G | DW | DW | PHASE 4 R | R | R | R | Y | Y PHASÉ 4 CHANGE PHAŜE 4 ALŤ. PEDESTRIAN CLEARANCE R | R | R | G | G | G | FDW | FDW R | R | R | R | Y | Y | DW | DW PHAS匿 4 ALT. CHANGÈ FLASHING FL/Y | FL/Y | FL/Y | FL/Y | FL/R | FL/R | FL/R | DARK DARK | OPERATION

1 2 3 4 5 6 7 8

(R) (R) (R) (R)

PHASE CHART